

PCT  
09RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/787,016DATE: 03/28/2001  
TIME: 17:32:11Input Set : A:\Sequence.txt  
Output Set: N:\CRF3\03282001\I787016.raw

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3 <110> APPLICANT: Alonso, Carlos
4     Domingo, David
5     Grandien, Alf
6     Leonardo, Esther
7     Martinez, Pedro
9 <120> TITLE OF INVENTION: Genes Encoding for the Human and Murine Death Inducer-Obliterator-1
11 <130> FILE REFERENCE: 46309-253995
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/787,016
C--> 13 <141> CURRENT FILING DATE: 2001-03-12
13 <150> PRIOR APPLICATION NUMBER: PCT/GB99/03019
14 <151> PRIOR FILING DATE: 1999-09-10
16 <160> NUMBER OF SEQ ID NOS: 4
18 <170> SOFTWARE: PatentIn version 3.0
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21 <211> LENGTH: 2610
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
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30 cctgttactc gtgaacagtg gctgacaaca gtgttgttgt gagcctggct gtctgcttgg      180
32 acccagaggt ttcgctctgcc aggggttttg gttgtattta ggatttcagg gaaaagtgtc      240
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38 actatcgcca agcgagagg cgaggggac gcggaggctg acccactgga gccgccaccc      420
40 ccacagcagc agctgggcct gtccctgcgg cgagtgagg ggcagcccaa gcgcaactgag      480
42 cgcgtggagc agttcctgac cattgcycgg cgccgcggca ggaggagcat gcctgtctcc      540
44 ctggaggatt ctggtgagcc cacgtcctgc cccgccacag acgccgagac agcctccgag      600
46 gcagcgtgg aaagcgcttc tgagaccaga agcgccccc agtctgcttc cacagctgtg      660
48 aaggaacgac cagcctcttc tgaaaagggtg aaaggagggg atgaccacga tgacacctcc      720
50 gatagtgaac gcgatggcct gaccttgaaa gagcttcaga atcgcttcg caggaagcgg      780
52 gaacaggagc ccactgagag gcccttgaaa gggatccaga gtcgcctgcg gaagaagcgc      840
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56 ctgcccagta agcaggagcc cgagaacgat cagggggttg tgtcccaggc tgggaaagat      960
58 gacagagaga gtaagtggga gggaaaggcg gctcaggaca tcaaagatga ggagcctgga      1020
60 gacttgggcc gaccgaagcc tgaatgtgag ggttacgacc ccaacgcctt gtattgcatt      1080
62 tgccgccagc ctcacaacaa caggtttatg atttgctgtg accgctgtga agaattggtt      1140
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66 gactatatct gcccacactg caccattctg caagtgcagg atgagactca ttcagaaacg      1260
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78 aaagaacaga agccaaagcc taaagaaaag atgaagatga agccagagaa gccagtcct      1620
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86 gcagtaaagc cagaaaagac tgctgctccc tcgccgtcac tgttgataa atgtatgtat 1860
88 cacctagggg ttggcctcct ggacccctcc cgttctttct ggatagccat cccctgggcc 1920
90 tgtccaggac tgggagttgc agctttgtgt taagctgac acagacaccg gctgcacat 1980
92 cagcgggaag cagagcccat gtccaggatg cctcctgctg ccctgtgtcc atccctagtc 2040
94 tgtcaggact tcctgtcact gttttccaaa gctgtaaac tcaactgtga acgttcacct 2100
96 taatgattga ttctttaatc tctgttttca ctctcaggct ctggttaagta tttgtattct 2160
98 ctcatocca gtctgattgc atagccacac tgcccggcac gccacatcca cccctgtctg 2220
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108 actcctgctt cataggcccc acggtaagtg agttcacacc tagaactctg tcctgaccgc 2520
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116 <211> LENGTH: 2867
117 <212> TYPE: DNA
118 <213> ORGANISM: Murine spp.
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125 actgacaaca gtggggtgag gcttgccgt ctgcttgacc tggccccagg tctataattt 180
127 tatgtaggat ttccagccaa aggtttccaa gctttcagtt ttgggacagg tatggatgat 240
129 aaagggcacc tgagcaatga ggaagcacc aaggctatca aaccaccag taaggagttc 300
131 aggaaaacct ggggttttcg aagaaccacg attgccaaac gtgaggggtg aggagacacg 360
133 gaggcggacc ccagttagca gcaaccacag cagcataacc tctccctgcg ccgcagtga 420
135 cggcaaccaa aacgtactga gagggtagaa gagtttctta ccacggttcg gcgccgagg 480
137 aaaaagaatg tgccgggtgc cctggaggat tccagttagc ccacatcttc cacagtcaact 540
139 gatgtggaga cagcttccga ggggagcgtt gaaagcagtt ctgagatcag aagtggccct 600
141 gtatctgact ccttagggaa agaacatcct gcctctcttg aaaaaggcaa aggaggtgaa 660
143 gaggaagaag acacctctga cagtgcaggt gatggcctta cgttgaagga acttcagaac 720
145 cgccttcgga gaaagcgaga gcaagaacct gtggagaggt ccctgagagg cagtcagaat 780
147 cgcctgagga agaagcgag agaggaagat tctgccgaaa ctgggagtg ccaaataaggc 840
149 agtgccgagc aggacagacc tctctgtaag caggagcctg aggctagtca gggaccagtg 900
151 tcccagtcag agacagatga catagaaaat cagttggaag ggaaggcgac tcagggaaat 960
153 acagaggaaa accccaggga agcgggcaaa ccaaagcctg agtgtgaggt ttacgacccc 1020
155 aatgccctgt actgcatctg ccgccagcct cacaacaaca ggtttatgat ctgctgtgat 1080
157 cgggtgtgagg agtgggttcca tgggtactgt gtgggtatct ctgaggcccg agggcggctc 1140
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179 gaccacaact acaatgctgt gaagccagag aagccagaga agccactgc actctcgccc 1800
181 accctattga gtaaattgtac gtatcaccca aaggtctggt tcccaggccc ctcccatcat 1860
183 ctgggtggct gcctggggct gtctaggacc agagtcctgg gtgttctggt gctgatagta 1920
185 gccagcagct cactgccagc cagaagcaga taccaagatg cctctggacc ccagggtgttc 1980
187 ctgcctagcc tgtggagcct ctctgggtgg ttctaaaga gctgtgtagg cctcatgttg 2040
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191 tgggacaaca tcagtgcact gttcagactc agttcagact tgagttcctc acaggacagc 2160
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219 <211> LENGTH: 562
220 <212> TYPE: PRT
221 <213> ORGANISM: Homo sapiens
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226 1 5 10 15
228 Lys Pro Thr Ser Lys Glu Phe Arg Lys Thr Trp Gly Phe Arg Arg Thr
229 20 25 30
231 Thr Ile Ala Lys Arg Glu Gly Ala Gly Asp Ala Glu Ala Asp Pro Leu
232 35 40 45
234 Glu Pro Pro Pro Pro Gln Gln Gln Leu Gly Leu Ser Leu Arg Arg Ser
235 50 55 60
237 Gly Arg Gln Pro Lys Arg Thr Glu Arg Val Glu Gln Phe Leu Thr Ile
238 65 70 75 80
240 Ala Arg Arg Arg Gly Arg Arg Ser Met Pro Val Ser Leu Glu Asp Ser
241 85 90 95
243 Gly Glu Pro Thr Ser Cys Pro Ala Thr Asp Ala Glu Thr Ala Ser Glu
244 100 105 110
246 Gly Ser Val Glu Ser Ala Ser Glu Thr Arg Ser Gly Pro Gln Ser Ala
247 115 120 125
249 Ser Thr Ala Val Lys Glu Arg Pro Ala Ser Ser Glu Lys Val Lys Gly
250 130 135 140
252 Gly Asp Asp His Asp Asp Thr Ser Asp Ser Asp Ser Asp Gly Leu Thr
253 145 150 155 160
255 Leu Lys Glu Leu Gln Asn Arg Leu Arg Arg Lys Arg Glu Gln Glu Pro
256 165 170 175
258 Thr Glu Arg Pro Leu Lys Gly Ile Gln Ser Arg Leu Arg Lys Lys Arg
259 180 185 190
261 Arg Glu Glu Gly Pro Ala Glu Thr Val Gly Ser Glu Ala Ser Asp Thr

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262          195          200          205
264 Val Glu Gly Val Leu Pro Ser Lys Gln Glu Pro Glu Asn Asp Gln Gly
265          210          215          220
267 Val Val Ser Gln Ala Gly Lys Asp Asp Arg Glu Ser Lys Leu Glu Gly
268 225          230          235          240
270 Lys Ala Ala Gln Asp Ile Lys Asp Glu Glu Pro Gly Asp Leu Gly Arg
271          245          250          255
273 Pro Lys Pro Glu Cys Glu Gly Tyr Asp Pro Asn Ala Leu Tyr Cys Ile
274          260          265          270
276 Cys Arg Gln Pro His Asn Asn Arg Phe Met Ile Cys Cys Asp Arg Cys
277          275          280          285
279 Glu Glu Trp Phe His Gly Asp Cys Val Gly Ile Ser Glu Ala Arg Gly
280          290          295          300
282 Arg Leu Leu Glu Arg Asn Gly Glu Asp Tyr Ile Cys Pro Asn Cys Thr
283 305          310          315          320
285 Ile Leu Gln Val Gln Asp Glu Thr His Ser Glu Thr Ala Asp Gln Gln
286          325          330          335
288 Glu Ala Lys Trp Arg Pro Gly Asp Ala Asp Gly Thr Asp Cys Thr Ser
289          340          345          350
291 Ile Gly Thr Ile Glu Gln Lys Ser Ser Glu Asp Gln Gly Ile Lys Gly
292          355          360          365
294 Arg Ile Glu Lys Ala Ala Asn Pro Ser Gly Lys Lys Lys Leu Lys Ile
295          370          375          380
297 Phe Gln Pro Val Ile Glu Ala Pro Gly Ala Ser Lys Cys Ile Gly Pro
298 385          390          395          400
300 Gly Cys Cys His Val Ala Gln Pro Asp Ser Val Tyr Cys Ser Asn Asp
301          405          410          415
303 Cys Ile Leu Lys His Ala Ala Ala Thr Met Lys Phe Leu Ser Ser Gly
304          420          425          430
306 Lys Glu Gln Lys Pro Lys Pro Lys Glu Lys Met Lys Met Lys Pro Glu
307          435          440          445
309 Lys Pro Ser Leu Pro Lys Cys Gly Ala Gln Ala Gly Ile Lys Ile Ser
310          450          455          460
312 Ser Val His Lys Arg Pro Ala Pro Glu Lys Lys Glu Thr Thr Val Lys
313 465          470          475          480
315 Lys Ala Val Val Val Pro Ala Arg Ser Glu Ala Leu Gly Lys Glu Ala
316          485          490          495
318 Ala Cys Glu Ser Ser Thr Pro Ser Trp Ala Ser Asp His Asn Tyr Asn
319          500          505          510
321 Ala Val Lys Pro Glu Lys Thr Ala Ala Pro Ser Pro Ser Leu Leu Tyr
322          515          520          525
324 Lys Cys Met Tyr His Leu Gly Val Gly Leu Leu Asp Pro Ser Arg Ser
325          530          535          540
327 Phe Trp Ile Ala Ile Pro Trp Ala Cys Pro Gly Leu Gly Val Ala Ala
328 545          550          555          560
330 Leu Cys
333 <210> SEQ ID NO: 4
334 <211> LENGTH: 614
335 <212> TYPE: PRT

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336 <213> ORGANISM: Murine spp.
338 <400> SEQUENCE: 4
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344 20 25 30
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347 35 40 45
349 Glu Gln Gln Pro Gln Gln His Asn Leu Ser Leu Arg Arg Ser Gly Arg
350 50 55 60
352 Gln Pro Lys Arg Thr Glu Arg Val Glu Glu Phe Leu Thr Thr Val Arg
353 65 70 75 80
355 Arg Arg Gly Lys Lys Asn Val Pro Val Ser Leu Glu Asp Ser Ser Glu
356 85 90 95
358 Pro Thr Ser Ser Thr Val Thr Asp Val Glu Thr Ala Ser Glu Gly Ser
359 100 105 110
361 Val Glu Ser Ser Ser Glu Ile Arg Ser Gly Pro Val Ser Asp Ser Leu
362 115 120 125
364 Gly Lys Glu His Pro Ala Ser Ser Glu Lys Ala Lys Gly Gly Glu Glu
365 130 135 140
367 Glu Glu Asp Thr Ser Asp Ser Asp Ser Asp Gly Leu Thr Leu Lys Glu
368 145 150 155 160
370 Leu Gln Asn Arg Leu Arg Arg Lys Arg Glu Gln Glu Pro Val Glu Arg
371 165 170 175
373 Ser Leu Arg Gly Ser Gln Asn Arg Leu Arg Lys Lys Arg Arg Glu Glu
374 180 185 190
376 Asp Ser Ala Glu Thr Gly Ser Val Gln Ile Gly Ser Ala Glu Gln Asp
377 195 200 205
379 Arg Pro Leu Cys Lys Gln Glu Pro Glu Ala Ser Gln Gly Pro Val Ser
380 210 215 220
382 Gln Ser Glu Thr Asp Asp Ile Glu Asn Gln Leu Glu Gly Lys Ala Thr
383 225 230 235 240
385 Gln Gly Asn Thr Glu Glu Asn Pro Arg Glu Ala Gly Lys Pro Lys Pro
386 245 250 255
388 Glu Cys Glu Val Tyr Asp Pro Asn Ala Leu Tyr Cys Ile Cys Arg Gln
389 260 265 270
391 Pro His Asn Asn Arg Phe Met Ile Cys Cys Asp Arg Cys Glu Glu Trp
392 275 280 285
394 Phe His Gly Asp Cys Val Gly Ile Ser Glu Ala Arg Gly Arg Leu Leu
395 290 295 300
397 Glu Arg Asn Gly Glu Asp Tyr Ile Cys Pro Asn Cys Thr Ile Leu Gln
398 305 310 315 320
400 Val Gln Asp Glu Thr Asn Gly Ser Ala Thr Asn Glu Gln Asp Ser Gly
401 325 330 335
403 Cys Arg Ser Val Gly Ala Asp Gly Thr Asp Cys Thr Ser Ile Gly Thr
404 340 345 350
406 Val Glu Gln Lys Ser Gly Glu Asp Gln Gly Ile Lys Gly Arg Ile Glu
407 355 360 365
409 Lys Ala Ala Asn Pro Ser Gly Lys Lys Lys Leu Lys Ile Phe Gln Pro

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VERIFICATION SUMMARY

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Input Set : A:\Sequence.txt

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L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date